

**ABSTRACT OF THE DISCLOSURE**  
**METHOD FOR THE SIZING OF A DETERMINISTIC TYPE PACKET-SWITCHING**  
**TRANSMISSION NETWORK**

Deterministic type packet-switching transmission networks are networks in which the different flows of information follow virtual paths defined in advance for which any change requires a reprogramming of the interconnection nodes. The advantage of determinism is that it makes it easier to estimate the maximum delay time that the packets may undergo during their journey in the network. However, it remains to be verified that the network is appropriately sized for the transmission of the different information flows, with the constraints of maximum delay times and of regularity imposed by the connected items of equipment. A method is proposed here for the sizing of the network. In this method, the verification of compliance with these constraints is based on the determining of the jitter components added by the different interconnection nodes of the network, at their different output ports. This determination is done incrementally, in descending along the virtual paths travelled through by the different information flows.

Fig. 8